

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09964100 on January 17, 2002

8 165/104.33 (2 OR, 6 XR)

Class 165 : HEAT EXCHANGE

165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
RECEIVING AND DISCHARGING HEAT

165/104.19 .Liquid fluent heat exchange material

165/104.33 ..Cooling electrical device

7 123/557 (1 OR, 6 XR)

Class 123 : INTERNAL-COMBUSTION ENGINES

123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)

123/543 .Heating of combustible mixture

123/557 ..Fuel only

4 165/104.26 (1 OR, 3 XR)

Class 165 : HEAT EXCHANGE

165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
RECEIVING AND DISCHARGING HEAT

165/104.19 .Liquid fluent heat exchange material

165/104.21 ..Utilizing change of state

165/104.26 ...Utilizing capillary attraction

4 165/41 (4 OR, 0 XR)

Class 165 : HEAT EXCHANGE

165/41 WITH VEHICLE FEATURE

4 165/51 (0 OR, 4 XR)

Class 165 : HEAT EXCHANGE

165/47 STRUCTURAL INSTALLATION

165/51 .Engine

4 174/15.2 (0 OR, 4 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS

174/8 WITH FLUIDS OR VACUUM

174/15.1 .With cooling or fluid feeding, circulating or  
distributing

174/15.2 ..By heat pipe

3 29/890.043 (2 OR, 1 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

- 29/890.03     .Heat exchanger or boiler making  
29/890.043    ..Tube joint and tube plate structure
- 3 122/26     (3 OR, 0 XR)  
Class 122 : LIQUID HEATERS AND VAPORIZERS  
122/26       FRICTION GENERATOR
- 3 126/247    (0 OR, 3 XR)  
Class 126 : STOVES AND FURNACES  
126/383.1     ..Collecting, directing, or shielding feature  
              for overflow or spatter of the liquid  
126/247       .Frictional
- 3 165/104.21 (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/104.11    INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
              RECEIVING AND DISCHARGING HEAT  
165/104.19    .Liquid fluent heat exchange material  
165/104.21    ..Utilizing change of state
- 3 165/140    (2 OR, 1 XR)  
Class 165 : HEAT EXCHANGE  
165/140       THREE NON-COMMUNICATING FLUIDS
- 3 165/148    (1 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/148       RADIATOR CORE TYPE
- 3 165/153    (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/148       RADIATOR CORE TYPE  
165/152       ..Deformed sheet forms passages between  
              side-by-side tube means  
165/153       ..With tube manifold
- 3 165/154    (2 OR, 1 XR)  
Class 165 : HEAT EXCHANGE  
165/154       NON-COMMUNICATING COAXIAL ENCLOSURES
- 3 165/163    (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/157       CASING OR TANK ENCLOSED CONDUIT ASSEMBLY  
165/163       ..Conduit coiled within casing
- 3 165/170    (0 OR, 3 XR)

- Class 165 : HEAT EXCHANGE  
165/168 CONDUIT WITHIN, OR CONFORMING TO, PANEL OR WALL  
STRUCTURE  
165/170 .Opposed plates or shells
- 3 165/173 (1 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/172 SIDE-BY-SIDE TUBULAR STRUCTURES OR TUBE  
SECTIONS  
165/173 .With manifold type header or header plate
- 3 165/175 (3 OR, 0 XR)  
Class 165 : HEAT EXCHANGE  
165/172 SIDE-BY-SIDE TUBULAR STRUCTURES OR TUBE  
SECTIONS  
165/173 .With manifold type header or header plate  
165/175 ..Inlet and outlet header means
- 3 165/76 (1 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/76 WITH REPAIR OR ASSEMBLY MEANS
- 3 165/80.4 (1 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/80.1 WITH RETAINER FOR REMOVABLE ARTICLE  
165/80.2 .Electrical component  
165/80.4 ..Liquid cooled
- 3 248/232 (0 OR, 3 XR)  
Class 248 : SUPPORTS  
248/200 BRACKETS  
248/232 .Radiator
- 3 257/714 (1 OR, 2 XR)  
Class 257 : ACTIVE SOLID-STATE DEVICES  
257/678 HOUSING OR PACKAGE  
257/712 .With provision for cooling the housing or its  
contents  
257/714 ..Liquid coolant
- 3 361/700 (1 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices  
361/688 ..With cooling means  
361/689 ...Fluid  
361/699 ....Liquid  
361/700 .....Change of physical state

3 361/704 (2 OR, 1 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices  
361/688 ..With cooling means  
361/704 ...Thermal conduction

2 24/625 (0 OR, 2 XR)

Class 024 : BUCKLES, BUTTONS, CLASPS, ETC.

24/572.1 SEPARABLE-FASTENER OR REQUIRED COMPONENT  
THEREOF (e.g., projection and cavity to complete interlock)

24/591.1 .Including member having distinct formations  
and mating member selectively interlocking therewith  
24/604 ..Projection having movable connection between  
components thereof or variable configuration  
24/614 ...Including resiliently biased projection  
component or surface segment  
24/618 ....Forming total external surface of  
projection  
24/625 .....Having inserted end formed by oppositely  
biased surface segments

2 60/618 (1 OR, 1 XR)

Class 060 : POWER PLANTS

60/597 FLUID MOTOR MEANS DRIVEN BY WASTE HEAT OR BY  
EXHAUST ENERGY FROM INTERNAL COMBUSTION ENGINE  
60/614 .Having fluid motor motive fluid treating,  
controlling or conditioning means  
60/616 ..Having means to transfer heat energy between  
engine exhaust and motive fluid for fluid motor  
60/618 ...Motive fluid is vaporized liquid

2 62/259.2 (1 OR, 1 XR)

Class 062 : REFRIGERATION

62/259.1 STRUCTURAL INSTALLATION  
62/259.2 .With electrical component cooling

- 2 62/402 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/401 AIR COMPRESSOR, COOLER AND EXPANDER TYPE  
62/402 .Motor-type expander
- 2 62/467 (0 OR, 2 XR)  
Class 062 : REFRIGERATION  
62/467 REFRIGERATION PRODUCER
- 2 74/579R (0 OR, 2 XR)  
Class 074 : MACHINE ELEMENT OR MECHANISM  
74/469 CONTROL LEVER AND LINKAGE SYSTEMS  
74/579R .Pitmans and connecting rods
- 2 123/41.31 (2 OR, 0 XR)  
Class 123 : INTERNAL-COMBUSTION ENGINES  
123/41.01 COOLING  
123/41.31 .With cooling of additional parts or materials
- 2 123/41.51 (0 OR, 2 XR)  
Class 123 : INTERNAL-COMBUSTION ENGINES  
123/41.01 COOLING  
123/41.51 .Plural radiators and/or tanks in series
- 2 123/541 (1 OR, 1 XR)  
Class 123 : INTERNAL-COMBUSTION ENGINES  
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
- 123/540 .Cooling of combustible mixture  
123/541 ..Fuel only
- 2 126/91A (0 OR, 2 XR)  
Class 126 : STOVES AND FURNACES  
126/99R HOT-AIR FURNACES  
126/58 .Heating  
126/79 ..Smoke and gas returning  
126/85R ...Gas  
126/91R ....Radiator type  
126/91A .....Elongated radiant tube
- 2 165/104.11 (0 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
RECEIVING AND DISCHARGING HEAT

2 165/104.14 (0 OR, 2 XR)

Class 165 : HEAT EXCHANGE

165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
RECEIVING AND DISCHARGING HEAT

165/104.13 .Plural intermediate fluent heat exchange  
materials

165/104.14 ..Always out of direct contact with each other

2 165/152 (1 OR, 1 XR)

Class 165 : HEAT EXCHANGE

165/148 RADIATOR CORE TYPE

165/152 .Deformed sheet forms passages between  
side-by-side tube means

2 165/179 (0 OR, 2 XR)

Class 165 : HEAT EXCHANGE

165/177 TUBULAR STRUCTURE

165/179 .Projecting internal and external heat transfer  
means

2 165/274 (1 OR, 1 XR)

Class 165 : HEAT EXCHANGE

165/200 WITH TIMER, PROGRAMMER, TIME DELAY, OR  
CONDITION RESPONSIVE CONTROL

165/272 .Control of heat pipe heat transfer  
characteristics

165/274 ..Control of vapor or liquid flow between  
evaporator and condenser sections (e.g., by variable  
restrictions, check valves, etc.)

2 165/905 (0 OR, 2 XR)

Class 165 : HEAT EXCHANGE

165/905 MATERIALS OF MANUFACTURE

2 165/916 (0 OR, 2 XR)

Class 165 : HEAT EXCHANGE

165/916 OIL COOLER

2 237/17 (0 OR, 2 XR)

Class 237 : HEATING SYSTEMS

237/16 COMBINED RADIATOR AND BOILER

237/17 .Fluid fuel

2 237/56 (0 OR, 2 XR)

Class 237 : HEATING SYSTEMS  
237/56 WATER

2 237/81 (1 OR, 1 XR)  
Class 237 : HEATING SYSTEMS  
237/81 PROCESSES

2 244/158A (2 OR, 0 XR)  
Class 244 : AERONAUTICS  
244/158R SPACECRAFT  
244/158A .Exterior surface air resistance heat control

2 244/163 (0 OR, 2 XR)  
Class 244 : AERONAUTICS  
244/158R SPACECRAFT  
244/160 .Reentry vehicle  
244/162 ..Manned  
244/163 ...Environmental control

2 248/49 (0 OR, 2 XR)  
Class 248 : SUPPORTS  
248/49 PIPE OR CABLE

2 248/65 (2 OR, 0 XR)  
Class 248 : SUPPORTS  
248/49 PIPE OR CABLE  
248/65 .Brackets

2 257/719 (0 OR, 2 XR)  
Class 257 : ACTIVE SOLID-STATE DEVICES  
257/678 HOUSING OR PACKAGE  
257/712 .With provision for cooling the housing or its  
contents  
257/718 ..Heat dissipating element held in place by  
clamping or spring means  
257/719 ...Pressed against semiconductor element

2 361/699 (0 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS  
361/679 .For electronic systems and devices  
361/688 ..With cooling means

361/689      ...Fluid  
361/699      ....Liquid

2 361/707      (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600      HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE  
ELECTRICAL COMPONENTS

361/679      .For electronic systems and devices  
361/688      ..With cooling means  
361/704      ...Thermal conduction  
361/707      ....Through support means

2 378/125      (0 OR, 2 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119      SOURCE  
378/121      .Electron tube  
378/125      ..With movable target

2 378/137      (2 OR, 0 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119      SOURCE  
378/121      .Electron tube  
378/137      ..With electron scanning or deflecting means

2 378/144      (0 OR, 2 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119      SOURCE  
378/143      .Target  
378/144      ..Rotary

2 392/352      (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/347      .Convection space heater  
392/352      ..Baseboard type

2 392/357      (2 OR, 0 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/347      .Convection space heater  
392/354      ..With intermediate heat absorber  
392/357      ...With fluid heat absorber

2 392/403      (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/386      .Vaporizer



392/394 ..Liquid evaporant (e.g., water, etc.)  
392/403 ...Container with self-contained evaporant  
supply

2 392/423 (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/407 .Radiant heater  
392/422 ..With reflector  
392/423 ...Elongated reflector

2 429/163 (2 OR, 0 XR)

Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING  
APPARATUS, PRODUCT, AND PROCESS

429/122 CURRENT PRODUCING CELL, ELEMENTS,  
SUBCOMBINATIONS AND COMPOSITIONS FOR USE THEREWITH

AND

ADJUNCTS

429/163 .Cell enclosure structure, e.g., housing,  
casing, container, cover, etc.